

Product Data Sheet

AkzoNobel Powder Coatings

INTERPON REDOX PZ AL101QF (Formerly 13-7004) Zinc Rich Primer

Product Description

Interpon Redox PZ is a epoxy powder coating primer containing zinc which is designed to give enhanced corrosion protection of mild steel.

It can be applied as single coat for interior application. It can be also used for exterior application as duplex system combining cathodic protection and barrier effect. It consists of a two-layer system with a zinc rich Interpon Redox PZ primer top coated with an Interpon powder topcoat.

When used as duplex system the recommended pre-treatment is grit/shot blasting for maximum protection and intercoat adhesion.

Powder Properties

Chemical type	Thermosetting epoxy
Appearance	Smooth
Gloss level (60°)	65.0 – 80.0 UN
Recommended Film thickness	1.8 – 2.2 mils
Specific gravity	2.94 +/-0.05 g/cm ³
Coverage @ 1.0 mil	65.4 sq.ft/lb/mil
Application	Electrostatic spraying
Storage	Maximum 80°F Under dry, cool conditions
Shelf life	At least 12 months from production date
Curing schedule	See curing section

Test Conditions

The results shown below are based on mechanical and chemical tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for guidance only.

Actual product performance will depend upon the circumstances under which the product is used.

Substrate	CRS
Pretreatment	Iron Phosphate (B1000) or Zinc Phosphate (B952)
Primer Thickness	1.8 - 2.2 mils
Curing Schedule	6 minutes at 375°F

Mechanical Tests

Cross Hatch Adhesion	ASTM D3359	5B
Impact resistance (Direct)	ASTM 2794	160
Pencil Hardness/mar Pencil Hardness/Gouge	ASTM 3363	H-2H 4H-5H

Environmental and Durability Tests	Exterior durability	Yes, when proper Interpon topcoat is used
Corrosion Tests Mild Steel	The results shown are based on tests which (unless otherwise indicated) have been carried out under laboratory conditions and are given for advice only, actual performance depends upon the circumstances under which the product is used.	
	Neutral Salt Spray	ASTM B117 Results are detailed in Table 1 of Appendix
Pretreatment	Steel surfaces to be coated must be clean and free from grease. For maximum protection, it is essential to pre-treat components prior to the application of Interpon Redox PZ . Surface pre-treatment obtained by grit SA2,5. Iron phosphate and zinc phosphate of ferrous metals improve corrosion resistance.	
Application	Interpon Redox PZ powders can be applied by manual or automatic electronic spray equipment. It is recommended that for consistent application and appearance product be fluidized during application. Unused powder can be reclaimed using suitable equipment and recycled through the coating system.	
Curing	Interpon Redox PZ shows a wide curing range must allowing application on substrates of different nature and thicknesses.	

Object temperature	Composite curing		Full curing	
	Min	Max	Min	Max
200°F	3'	15'		
250°F	2'	10'		
350°F			10'	23'
375°F			6'	17'
400°F			4'	13'

The Interpon Redox PZ system provides excellent protection against corrosion on the surface to which it is applied. However, the efficiency of this protection depends on the surface, its preparation before coating and the topcoat applied.

If there is penetrating damage through the coating system to the substrate, there may be localized signs of corrosion where damage has occurred but this will not affect the adhesion of the film to the adjacent surface. Interpon Redox PZ considerably limits the extent of spread of corrosion in the event of coating damage.

Safety Precautions

This product is intended for use only by professional applicators in industrial environments and should not be used without reference to the relevant health and safety data sheet which Akzo Nobel has provided to its customers.

Disclaimer

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product.

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<http://www.interpon.com/contact-us/>

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Interpon Redox PZ / AL101QF - Issue #1

Last Revision Date: 16.01.2023

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Appendix 1: Salt Spray Resistance

Coating System		Interpon Redox PZ + Interpon 800
Neutral Salt Spray ASTM B117	Pre-treatment	Notes
	Blasted Steel	creep @ 3528 hrs. <1/4"
	Iron Phosphate	creep @ 4032 hrs. <1/8"
	Zinc phosphate	creep @ 4032 hrs. <1/8"